

Appendix C

Cross-section macrographs from the bead-on-plate wet welds

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C.1 Initial bead-on-plate wet welds

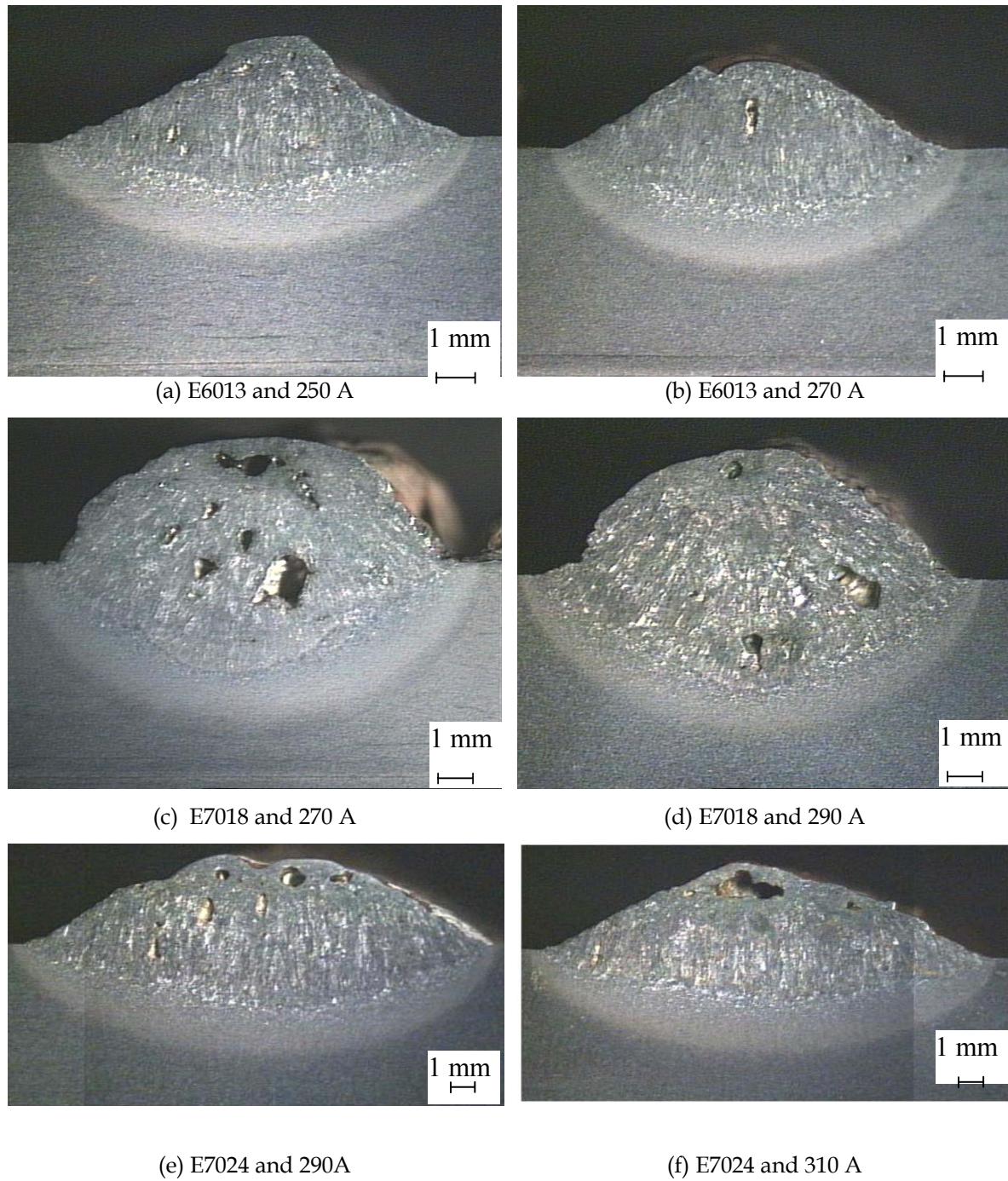


Figure C.1. Cross-section macrographs of the initial bead-on-plate wet welds deposited with three electrodes types at 50 m using electrode positive.

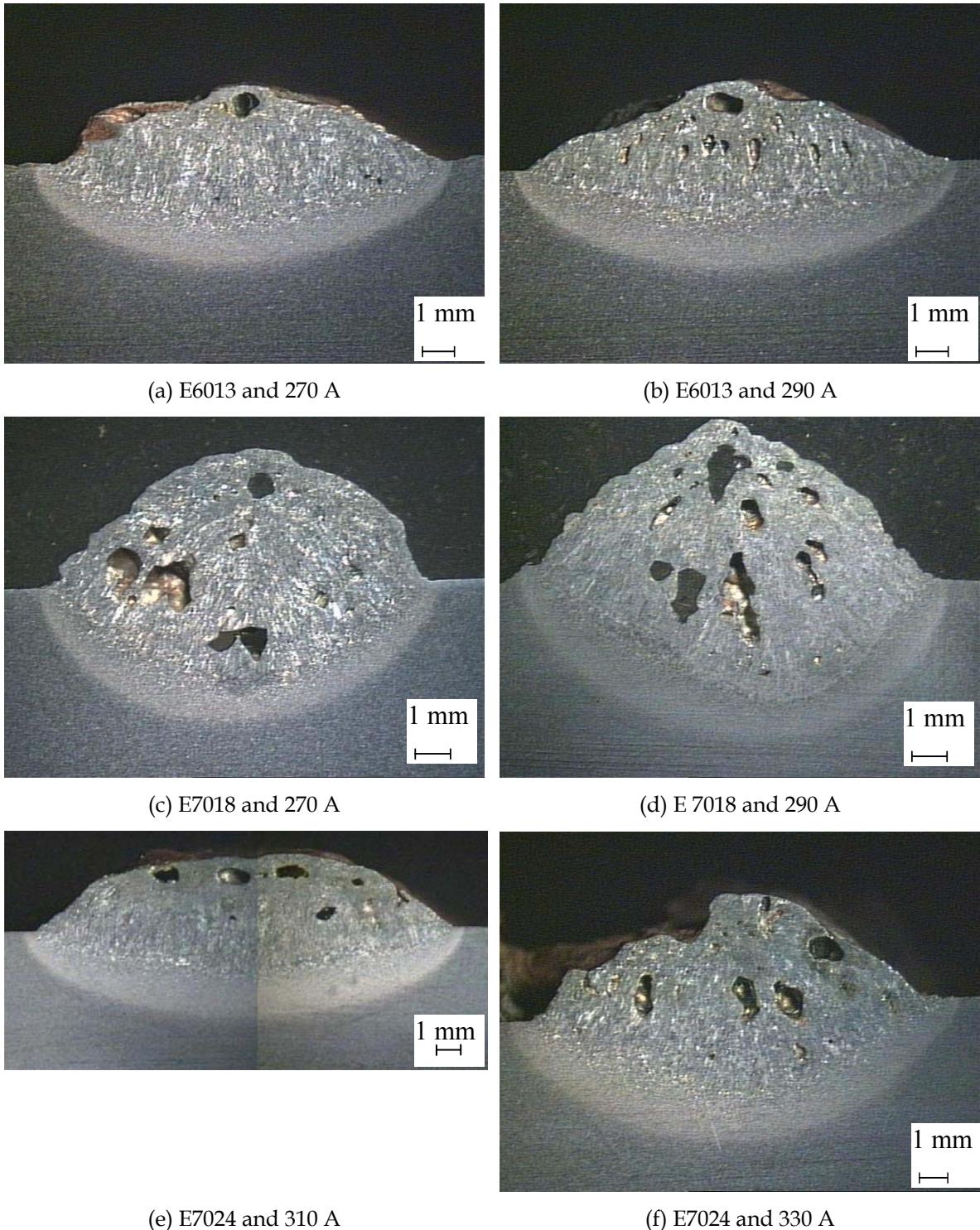


Figure C.2. Cross-section macrographs of the initial bead-on-plate wet welds deposited with the three electrode types at 100 m using electrode positive.

C.2 Bead-on-plate wet welds

C.2.1 BOP welds on A36 Steel

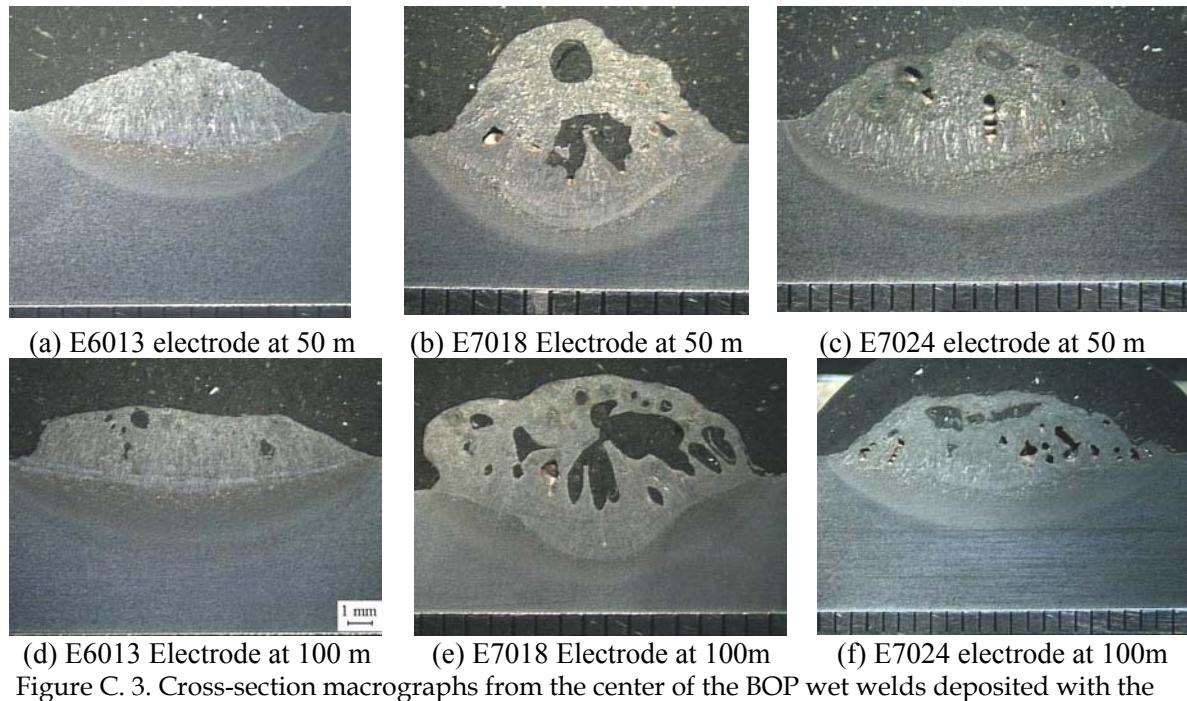


Figure C. 3. Cross-section macrographs from the center of the BOP wet welds deposited with the E6013, E7018 and E7024 electrodes using electrode positive at 50 and 100m.

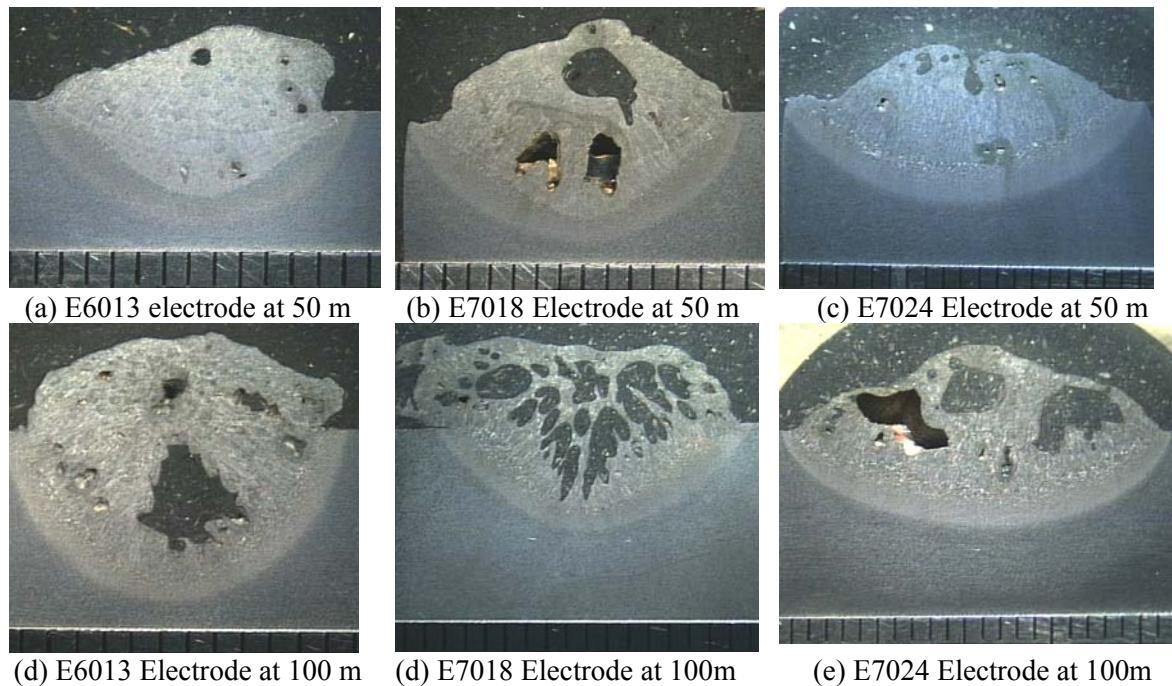


Figure C.4. Cross-section macrographs from the center of the BOP wet welds deposited with the E6013, E7018 and E7024 electrodes using electrode negative at 50 and 100m.

C.2.2 BOP welds on A572 Gr. 50 Steel

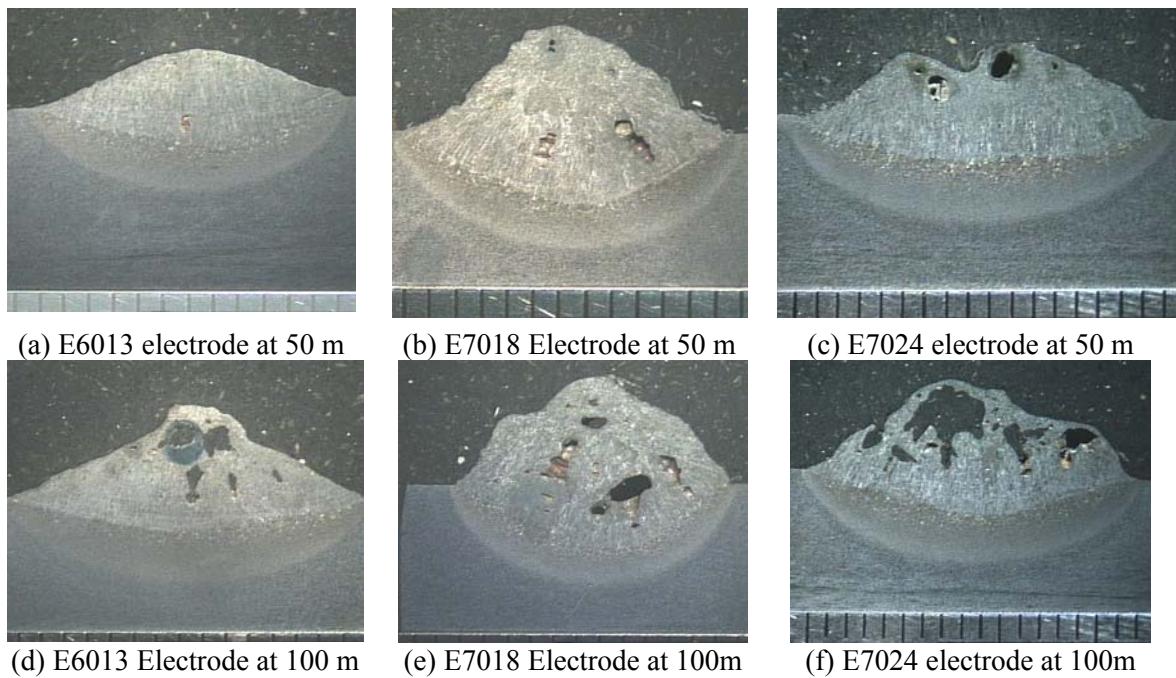


Figure C.5. Cross-section macrographs from the center of the BOP wet welds deposited using electrode positive with the E6013, E7018 and E7024 electrodes at 50 and 100m.

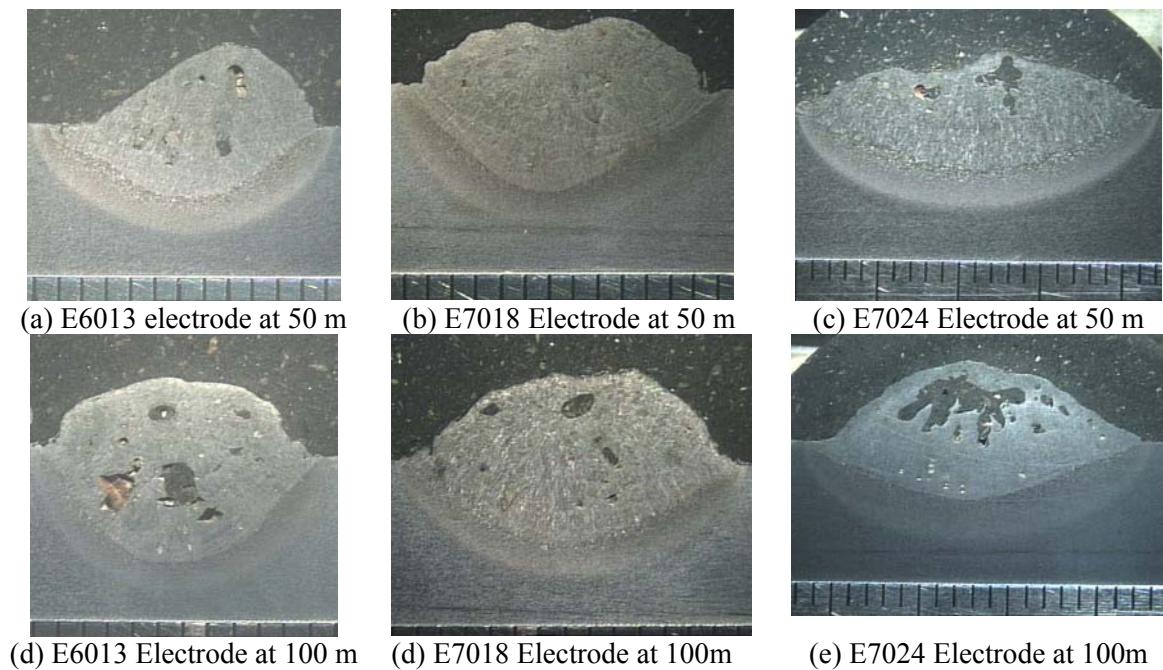


Figure C.6. Cross-section macrographs from the center of the BOP wet welds deposited using electrode negative with the E6013, E7018 and E7024 electrodes at 50 and 100m.

C.2.3 BOP welds on API 5L Gr. B

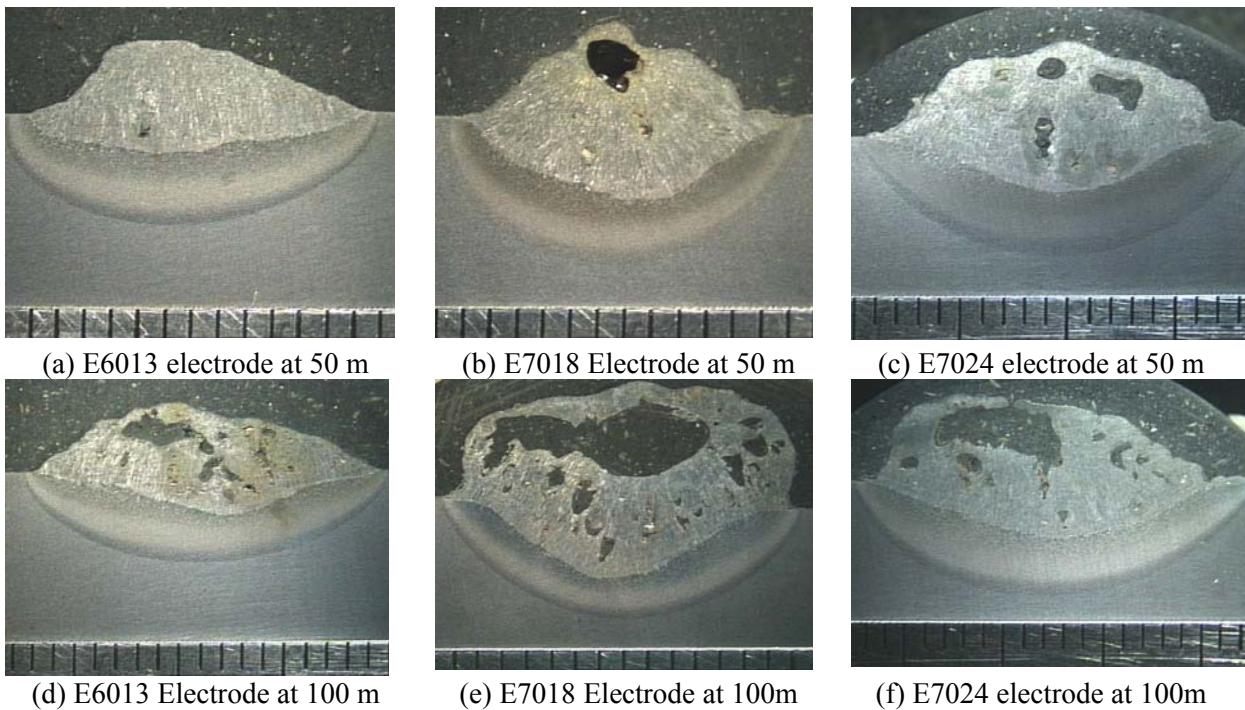


Figure C.7. Cross-section macrographs from the center of the BOP wet welds deposited using electrode positive with the E6013, E7018 and E7024 electrodes at 50 and 100m.

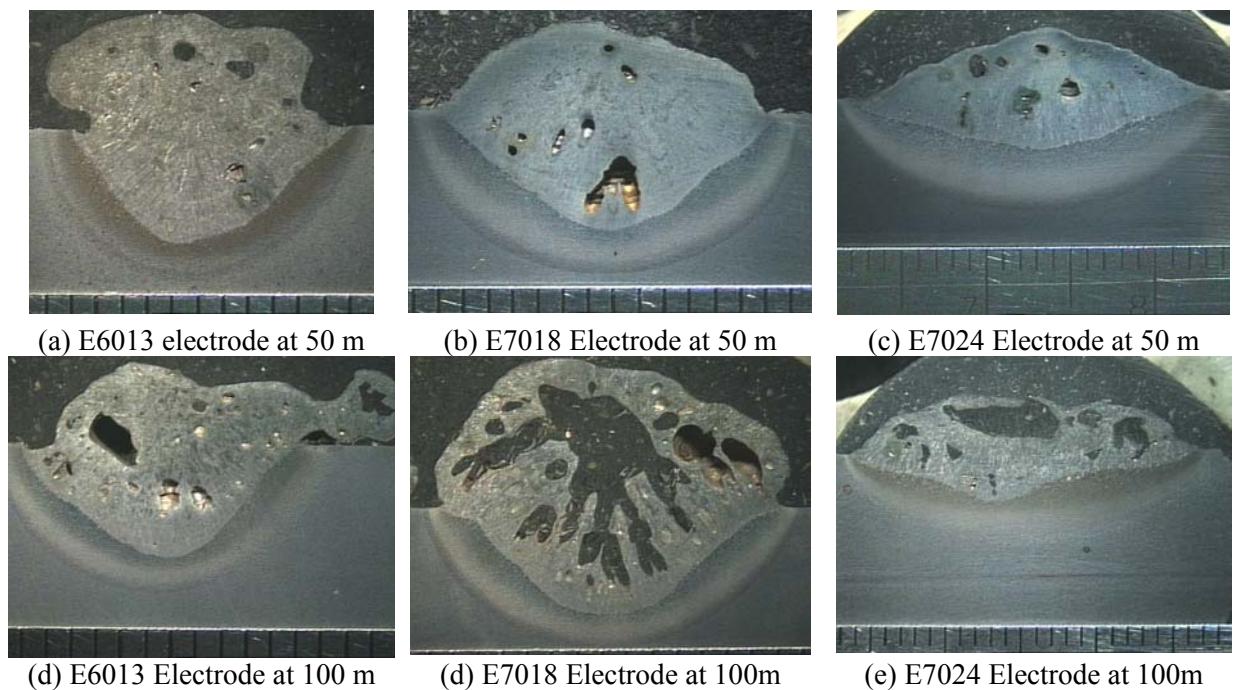


Figure C.8. Cross-section macrographs from the center of the BOP wet welds deposited using electrode negative with the E6013, E7018 and E7024 electrodes at 50 and 100m.